

**Study Number:** MOG11042  
**Test Type:** MOG - Range Finding  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Harlan Sprague Dawley

**R03: Summary of Litter Data**  
**Test Compound:** Triphenyl Phosphate  
**CAS Number:** 115-86-6

**Date Report Requested:** 02/19/2021  
**Time Report Requested:** 13:09:30  
**Lab:** Battelle

**Study Number:** MOG11042  
**Study Gender:** Both  
**PWG Approval Date:** See web page for date of PWG Approval  
**Version:** v1.1.7

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F1 Pups from F0 Females

Treatment Groups (ppm)

	0	1000	3000	10000	15000
No. F0 Dams					
PND 0	15	16	12	15	11
Total No. Pups					
PND 0	183	191	161	193	130
Total Pups per Litter					
PND 0	12.2 ± 0.8 (15)	11.9 ± 0.9 (16)	13.4 ± 0.5 (12)	12.9 ± 0.6 (15)	11.8 ± 0.5 (11)
Total No. Live					
PND 0	177	187	158	190	117
Live per Litter					
PND 0	11.8 ± 0.8 (15)	11.7 ± 0.9 (16)	13.2 ± 0.5 (12)	12.7 ± 0.7 (15)	11.7 ± 0.5 (10)
PND 1	11.7 ± 0.8 (15)	11.6 ± 0.9 (16)	13.2 ± 0.5 (12)	12.3 ± 0.8 (15)	11.5 ± 0.5 (10)
PND 4	11.6 ± 1.0 (12)	11.4 ± 1.1 (13)	13.2 ± 0.5 (12)	11.1 ± 1.2 (12)	10.3 ± 0.4 (10)
PND 7	11.5 ± 1.0 (12)	11.1 ± 1.2 (13)	13.0 ± 0.5 (12)	11.5 ± 0.9 (11)	9.3 ± 0.7 (10)
PND 10	11.5 ± 1.0 (12)	11.0 ± 1.2 (13)	12.9 ± 0.5 (12)	11.5 ± 0.9 (11)	9.2 ± 0.9 (9)
PND 14	11.3 ± 1.0 (12)	10.8 ± 1.2 (13)	12.8 ± 0.5 (12)	11.2 ± 0.9 (11)	9.0 ± 0.8 (9)
PND 17	11.3 ± 1.0 (12) *	10.8 ± 1.2 (13)	12.8 ± 0.5 (12)	11.1 ± 0.8 (11)	8.3 ± 0.7 (8) *
PND 21	11.3 ± 1.0 (12) *	10.8 ± 1.2 (13)	12.8 ± 0.5 (12)	11.1 ± 0.8 (11)	8.3 ± 0.7 (8) *
PND 24	11.3 ± 1.0 (12) *	10.8 ± 1.2 (13)	12.8 ± 0.5 (12)	11.1 ± 0.8 (11)	8.3 ± 0.7 (8) *
PND 28	11.3 ± 1.0 (12) *	10.8 ± 1.2 (13)	12.8 ± 0.5 (12)	11.1 ± 0.8 (11)	7.9 ± 0.6 (8) *
Dead per Litter					
PND 0	0.40 ± 0.19 (15)	0.25 ± 0.17 (16)	0.25 ± 0.13 (12)	0.20 ± 0.11 (15)	1.18 ± 0.89 (11)
PND 1 - 4	0.07 ± 0.07 (15) **	0.06 ± 0.06 (16)	0.00 ± 0.00 (12)	1.20 ± 0.78 (15)	1.40 ± 0.40 (10) **
PND 5 - 28	0.25 ± 0.13 (12) **	0.54 ± 0.39 (13)	0.42 ± 0.15 (12)	0.92 ± 0.43 (12)	4.00 ± 1.32 (10) **
Number of Dead					
PND 0	6 (4)	4 (2)	3 (3)	3 (3)	13 (4)
PND 1 - 4	1 (1)	1 (1)	0 (0)	18 (4)	14 (8)
PND 5 - 28	3 (3)	7 (3)	5 (5)	11 (5)	40 (9)

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**Treatment Groups (ppm)**

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	<b>0</b>	<b>1000</b>	<b>3000</b>	<b>10000</b>	<b>15000</b>
% Live Male Pups per Litter					
PND 0	42.32 ± 2.38 (15)	52.87 ± 3.92 (16)	50.38 ± 3.84 (12)	45.98 ± 3.98 (15)	50.57 ± 6.06 (10)
Survival Ratio					
PND 0	0.96 ± 0.02 (15)	0.98 ± 0.01 (16)	0.98 ± 0.01 (12)	0.98 ± 0.01 (15)	0.89 ± 0.09 (11)
PND 1 - 4	0.99 ± 0.01 (15) **	1.00 ± 0.00 (16)	1.00 ± 0.00 (12)	0.90 ± 0.06 (15)	0.89 ± 0.03 (10) **
PND 5 - 28	0.97 ± 0.02 (12) **	0.94 ± 0.05 (13)	0.97 ± 0.01 (12)	0.86 ± 0.08 (12)	0.62 ± 0.11 (10) **

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## LEGEND

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Total No. of Pups and Total Pups per Litter is inclusive of nonviable pups.

Data are displayed as the means and standard errors of the litter means, N is number of litters

F1 Total Pups per Litter, Live per Litter, Dead per Litter, % Live Male Pups per Litter, and Survival Ratio endpoints were analyzed using Jonckheere's test for trend and Shirley's or Dunn's methods for pairwise comparison of controls to dose groups.

For Number of Dead, N is displayed as the number of pups (number of litters contributing dead pups).

No trend or pairwise tests were conducted on the Total Number of Pups, Total Number of Live, or Number of Dead endpoints.

All calculations are based on the last litter observation of the day

Survival ratio on PND 0 is live pup count at the last PND 0 litter observation relative to the total number of pups upon completion of parturition.

Statistical significance for the control group indicates a significant trend test

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

\* Statistically significant at  $P \leq 0.05$

\*\* Statistically significant at  $P \leq 0.01$

The 30,000 ppm group was terminated due to excessive toxicity on GD12.

Three dams were removed from the control, 1000, and 10000 ppm groups for biological sample collection on GD18, and three dams and their litters were removed from these groups on LD4.

**\*\* END OF REPORT \*\***